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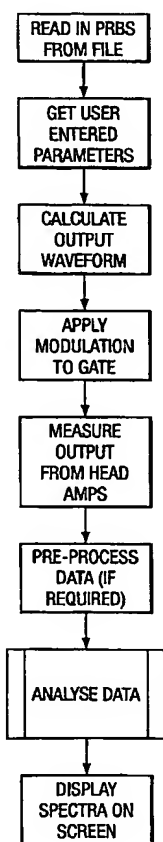
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(54) Title: PSEUDO-RANDOM BINARY SEQUENCE GATE-SWITCHING FOR SPECTROMETERS

(57) Abstract: An IMS or other detection system has an entry gate (3) controlled by a pseudo-random binary sequence that is bit-flipped to reduce noise. Matrix algebra is used to carry out deconvolution and analysis of the cell output.



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